

# atetek

## ASTRONOMICAL TIME SWITCH AR-01D (2 x 16A)





Astronomical Time Switch is a programmable switch to turn on electric utilities between sunset and sunrise accordingly to the geographical area of installation.

### APPLICATIONS:

- Street illuminations
- Road signs illuminations
- Shopping Center illuminations
- Parks/Garden illuminations
- Parking illuminations
- Luminous signboards (shops, etc)
- Home illuminations
- Other illumination applications...

### GENERAL SPECIFICATIONS:

- Sunset and sunrise calculation precision ( $\pm 1$  min.)
- Daily automatic regulation of sunrise and sunset time
- Sunrise and sunset times offset feature up to  $\pm 9$  hours 59 minutes
- Automatically switching on and off with coordinates as latitude-longitude data
- GMT time zone feature
- CET / DST automatic update and cancel option
- Program assignment for each day separately in a week
- All configuration can be monitored in tracking menu
- Sunset and sunrise times can be viewed on screen
- Password menu blocked no authorized person usage
- User-friendly English and Turkish Menu
- Low battery notice can be viewed on screen
- Day information can be viewed on screen with symbols
- Contact status can be viewed on screen
- CET / DST status can be viewed on screen
- Contacts can be used manual without program
- Can be programmed without energy
- Sleep mode

## PRE-SET PROGRAMS :

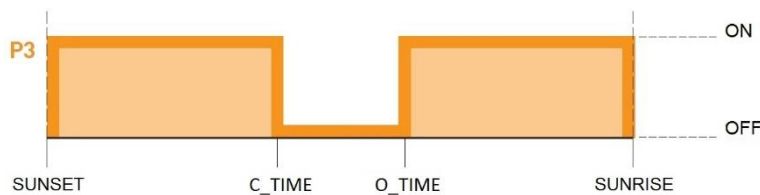
The device is equipped with 6 pre-set programs that allows the user to program the device. These are P1, P2, P3, P4, P5 and P6 programs.



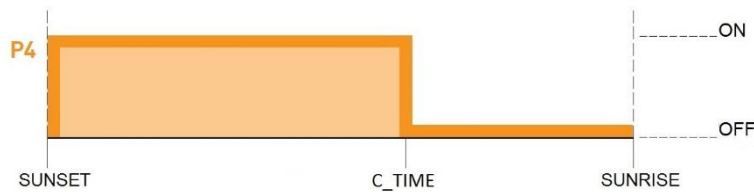
P1 Program is operating accordingly to astronomical time zone. The concerning contact is active between sunset and sunrise.



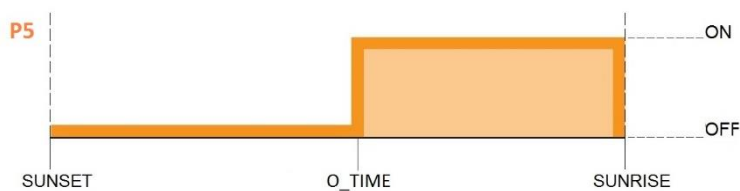
In P2 program the concerning contact is passive all day.



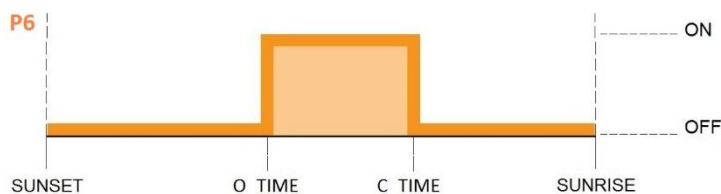
In P3 Program, the concerning contact is deactivated in the defined duration between sunset and sunrise. This time can be set from the P3 menu



P4 Program brings the concerning contact after the sunset passive according to the concerning time. This time can be set from the P4 menu.



P5 Program is the reverse of P4 program. P5 Program brings the concerning contact active after sunset according to the defined time until sunrise.

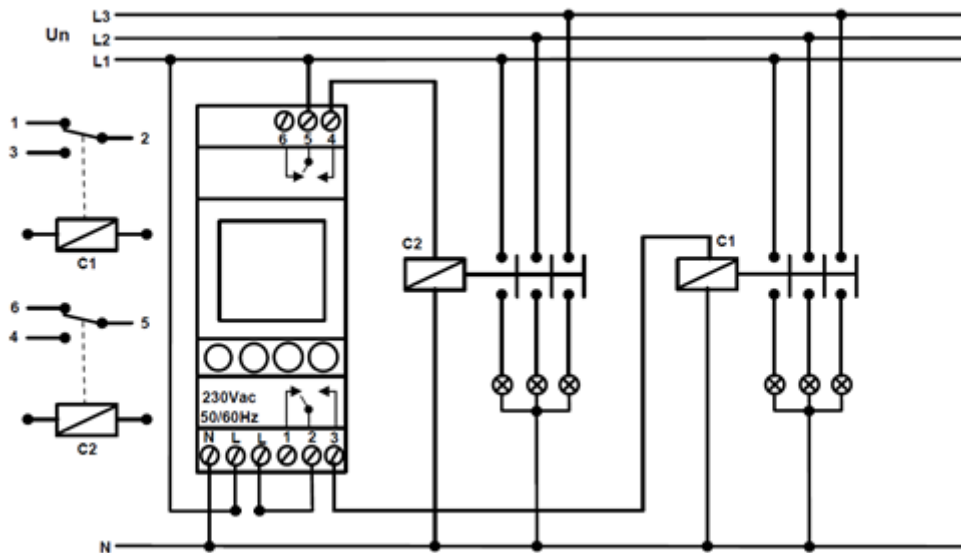


P6 Program is the reverse of P3 Program. The concerning contact is activated in the defined duration between sunset and sunrise.

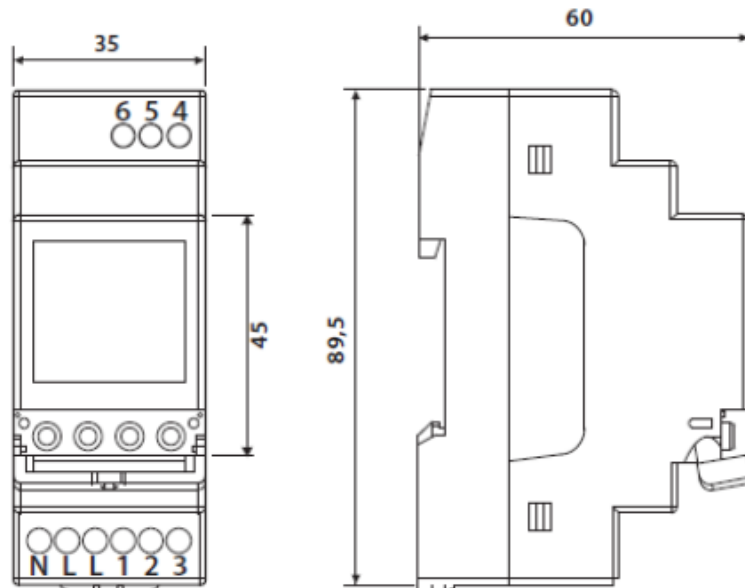
### TECHNICAL SPECIFICATIONS:

Power Supply	230 V <sub>AC</sub> ±10%, 50/60 Hz
Relay Output	16A/4000VA x 2 pcs
Additional reserve	9~12 hours
Battery / Battery Life	CR2032 / 5 years
Renewal	1 sec
Display Size	1,45" LCD
Dimension	2 DIN
Time precision	≤ 1 sec/day
Sunset and Sunrise Accuracy	≤ 1 min
Operating Temperature	-20 °C / +60 °C
Storage Temperature	-30 °C / +70 °C
Installation	DIN Rail or Wall mounting
Protection Class	IP 20 / IP 41 (Front Panel)
Other Specifications	Battery Replacement
	Sealable Button Cover
	Backlit LCD Display

### CONNECTION DIAGRAM:



## DIMENSIONS:



## REFERENCE STANDARDS:

The device is designed under the following directives and is reported with the tests in accredited laboratories.

- **2004/108/EC** Electromagnetic Compatibility (E.M.C.)
  - **EN 60730-1** General Requirements
  - **EN 60730-2-7** Automatic electrical controls for household and similar use
- **2006/95/EC** Low Voltage Directive (LVD)
  - **EN 60068-2-1** Environmental testing; Cold
  - **EN 60068-2-2** Environmental testing; Dry heat
  - **EN 60730-2-7** Automatic electrical controls for household and similar use
- **DIN 43 880** Built-in equipment for electrical installations
- **EN 62054-21** Particular requirements for time switches (Crystal controlled time switch test)